

RECEIVED 30 MAR 2006

**TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE**  
**(DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371**

Docket No.: B-5926PCT 623364-3

International Application No.:  
PCT/JP2004/014561

20/574052

Applicant(s) for DO/EO/US:  
(1) Masayoshi TAKAHASHI  
(2) Kaneo CHIBA

International Filing Date:  
28 September 2004

Title of Invention: "METHOD FOR COLLAPSING MICROBUBBLES"

Priority Date Claimed:  
30 September 2003

U.S. Application No.  
(if known, see 37 CFR 1.5)  
NOT YET ASSIGNED

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
3. ☒ This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.
4. ☒ The U.S. Has been elected (Article 31).
5. ☒ A copy of the International Application as filed (35 U.S.C. 371(c)(2)).
  - a. ☒ is attached hereto (required only if not communicated by the International Bureau).
  - b. ☐ has been communicated by the International Bureau.
  - c. ☐ is not required, as the application was filed in the United States Receiving Office.
6. ☒ An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).
  - a. ☒ is attached hereto.
  - b. ☐ has been previously submitted under 35 U.S.C. 154(d)(4).
7. ☒ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)).
  - a. ☒ are attached hereto (required only if not communicated by the International Bureau).
  - b. ☐ have been communicated by the International Bureau.
  - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
  - d. ☐ have not been made and will not be made.
8. ☒ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9. ☐ An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).
10. ☐ An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

Items 11 to 20 below concern document(s) or information included:

11. ☒ An Information Disclosure Statement under 37 CFR 1.97 and 1.98 with copy of PCT search report.
12. ☐ An assignment document for recording. A separate cover sheet with check for \$40.00 in compliance with 37 CFR 3.28 and 3.31 is included.
13. ☒ A preliminary amendment.
14. ☐ An Application Data Sheet under 37 CFR 1.76.
15. ☐ A substitute specification.
16. ☐ A power of attorney and/or change of address letter.
17. ☐ A computer-readable form of the sequence listing in accordance with PCT rule 13ter.2 and 37CFR 1.825.
18. ☐ A second copy of the published international application under 35 U.S.C. 154(d)(4).
19. ☐ A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).
20. ☒ Other items or information: Unsigned Declaration/Power of Attorney (4 pp.)  
Copy of published PCT application (41 pages)  
Claim to Priority (1 page)

10/574052

## The following fees are submitted:

21. ☒ Basic national fee.....\$ 300.00 = \$ 300.00

22. ☒ Examination fee  
 If International preliminary examination report prepared by USPTO  
 and all claims satisfy provisions of PCT Article 33(1)-(4) ..... \$ 100.00  
 All other situations..... \$ 200.00 = \$ 200.00

23. ☒ Search fee  
 Search fee (37 CFR 1.445(a)(2)) has been paid on the international  
 application to the USPTO as an International Searching Authority.... \$ 100.00  
 International Search Report prepared and provided to the Office..... \$ 400.00  
 All other situations..... \$ 500.00 = \$ 400.00

**TOTAL OF 21, 22 and 23 = \$ 900.00**

☐ Additional fee for specification and drawings filed in paper over  
 100 sheets (excluding sequence listing or computer program listing  
 filed in an electronic medium). The fee is \$250 for each additional  
 50 sheets of paper or fraction thereof.

Total Sheets	Extra sheets	# of each additional 50 or fraction thereof	RATE	
<u>38</u> - 100 =	<u>0</u> / 50 =		x \$250.00	\$ _____

Surcharge of \$130.00 for furnishing the oath or declaration later than  
 30 months from the earliest claimed priority date (37 CFR 1.492(e)). \$ 130.00

CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	
Total claims	<u>17</u> - 20 =	<u>0</u>	x \$50.00	\$ <u>0</u>
Independent claims	<u>1</u> - 3 =	<u>0</u>	x \$200.00	\$ <u>0</u>

MULTIPLE DEPENDENT CLAIM(S) (if applicable) + \$360.00 \$ \_\_\_\_\_  
☐ Amendment deleting multiple dependencies enclosed

**TOTAL OF ABOVE CALCULATIONS = \$ 1030.00**

☒ Applicant claims small entity status. See 37 CFR 1.27.  
 The fees indicated above are reduced by 1/2. (50% of above) \$ \_\_\_\_\_  
**SUBTOTAL = \$ 515.00**

Processing fee of \$130.00 for furnishing the English translation later than  
 30 months from the earliest claimed priority date (37 CFR 1.492(f)). \$ \_\_\_\_\_

**TOTAL NATIONAL FEE = \$ 515.00**

Fee for recording the enclosed assignment (37 CFR 1.21(h)).  
 The assignment must be accompanied by an appropriate cover  
 sheet (37 CFR 3.28, 3.31). \$40.00 per property + \$ \_\_\_\_\_

**TOTAL FEES ENCLOSED = \$ 515.00**

Amount to be refunded: \$ \_\_\_\_\_  
 charged: \$ \_\_\_\_\_

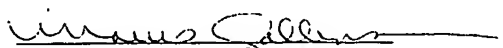
☒ A check in the amount of \$ 515.00 to cover the above fees is enclosed.

☐ Please charge my Deposit Account No. \_\_\_\_\_ in the amount of \$ \_\_\_\_\_ to cover the  
 above fees. A duplicate copy of this sheet is enclosed.

☒ The commissioner is hereby authorized to charge any additional fees which may be  
 required, or credit any overpayment to Deposit Account No. 12-0415. A duplicate copy  
 of this sheet is enclosed.

☐ Fees are to be charged to a credit card. WARNING: Information on this form may  
 become public. Credit card information should not be included on this form. Provide  
 credit card information and authorization on PTO-2038.

Send all correspondence to:  
 LADAS & PARRY  
 5670 Wilshire Boulevard, Suite 2100  
 Los Angeles, California 90036-5679  
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 Mavis S. Gallenson  
 Reg. No. 32,464

10/574052

IAP5 Rec'd PCT/PTO 29 MAR 2006

IN THE UNITED STATES DESIGNATED OFFICE DO/EO/US  
REGARDING THE INTERNATIONAL APPLICATION OF:  
(1) Masayoshi TAKAHASHI and (2) Kaneo CHIBA

ENTITLED: "METHOD FOR COLLAPSING MICROBUBBLES"

INTERNATIONAL APPLN. NO. PCT/JP2004/014561

Our Ref: B-5926PCT 623364-3

MAIL STOP PCT  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450  
Attn: United States Designated/Elected Office (DO/EO/US)

INTERNATIONAL STAGE EXPRESS MAIL CERTIFICATE  
"Express Mail" label number EV705006185US

Date of Deposit: March 29, 2006

- I hereby certify that the following attached papers or fee
- postcard
  - check no. 21116 for \$515.00
  - Transmittal Letter (2 pages)
  - Preliminary Amendment (8 pages) with copy of Article 19 Amendment
  - copy of PCT International Application as filed and published consisting of: Title page with Abstract (2 pp.), Specification (20 pp.), Claims (4 pp.), Amendment under Article 19 (5 p.); 8 sheets of Drawings (Figs. 1-11), and International Search Report (4 pp.)
  - English language translation of International Application as filed consisting of : Specification (25 pp.), Claims (4 pp.), Abstract (1 pg.), and Drawings, (8 pp.)
  - Unsigned Declaration/Power of Attorney (4 pages)
  - Claim to Priority (1 page)
  - Information Disclosure Statement (IDS) (2 pp.) and Form PTO-1449 (modified) (1 pg.) with copy of International Search Report (4 pp.) and copies of foreign patent documents.

are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service with sufficient postage under 37 CFR 1.10 on the date indicated above in an envelope addressed to OMail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450"

Linda S. Santiago  
(Typed or printed name of person  
mailing paper or fee)

